

17 January 1995

## MEMORANDUM FOR RECORD

SUBJECT: Meeting Minutes, HTRW Site Remediation and Environmental Compliance Task Group Meeting, 10 - 13 January 1995, Dallas, Texas

## 1. Attendees:

a. Phil Hunter, AFCEE/ERC, 8004 Chennault Drive, Brooks AFB, TX 78235-5329, phone - 210-536-5381, fax - 210-536-5989, email - HNTRPM@afcee2.brooks.af.mil.

b. Christopher Kyburg, SW Div NAVFACCOM, 1220 Pacific Highway, San Diego, CA 92132, phone - 619-532-1998, fax 619-532-2469, email - cekinib@aol.com.

c. Dennis Bowser, USAEC, IRD-C (ATTN: D. Bowser), Bldg. E-4480, Aberdeen Proving Ground, 21010, phone - 410-671-1514, 410-671-1548, email - dbowser@aec1.apgea.army.mil.

d. Thomas Reed, USACE, Alaska District, CENPR-EN-EE-AI, P.O. Box 0898, Anchorage, AK 99506-0898, phone - 907-753-5642, fax 907-753-5611, email - thomas.reed@npa01.usace.army.mil.

e. James Krokee, SW Div NAVFACCOM, 1220 Pacific Highway, San Diego, CA 92132, phone - 619-532-1229, fax - 619-532-1242.

f. Bobby Carpenter, Tri-Service CADD/GIS Technology Center, USWES, CEWES-IM-DA, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199, phone - 601-634-4572, fax - 601-634-4584, email - carpenb@ex1.wes.army.mil.

g. Sam Hopper, Tesserart Technologies, 14500 Arion Parkway, Chntilly, VA, phone 703-222-2030.

2. The purpose of the meeting was to (1) compare the contents of four existing databases which basically tract HTRW site remediation data, and (2) develop environmental compliance data functional requirements. The results of the meeting was used to be used in development of the Environmental Hazard portion of the Tri-Service Spatial Data Standards currently under development at the Tri-Service CADD/GIS Technology Center.

## 3. The four existing databases which were compared were:

a. Installation Restoration Program Information Management System (IRPIMS) - developed by Air Force and maintained by AFCEE.

b. Installation Restoration Data Management Information System (IRDMIS) - developed and maintained by Army Environmental Center.

c. Environmental Data Management System (EDMS) - currently being developed by USACE, Alaska District.

d. Navy Environmental Data Transfer Standard (NEDTS) - developed by SW Div NAVFACCOM.

4. The data fields which were found to be contained in all four databases are summarized as follows:

a. **SITE.**

(1) Installation ID.

b. **LOCATION.**

- (1) Location ID.
- (2) Object Type.
- (3) Primary Northing.
- (4) Primary Easting.

**c. WELLS.**

- (1) Location ID.
- (2) Well Completion Date (i.e., date when all hardware has been installed).
- (3) Total Well Depth (i.e., distance from ground surface to bottom of casing).
- (4) Casing Start Depth.
- (5) Casing End Depth.
- (6) Drilling Company.
- (7) Prime Contractor.
- (8) Drilling Method.
- (9) Comment.
- (10) Screen Slot Size.
- (11) Screen Percent Opening.
- (12) Screen Diameter (I.D.).
- (13) Screen Beginning Depth.
- (14) Screen Length.
- (15) Measuring Point Elevation.
- (16) Well Start Date (i.e., date drilling was started).
- (17) Ground Surface Elevation.

**d. CHEMISTRY (LAB).**

- (1) Laboratory Sample No.
- (2) Laboratory ID.
- (3) Results (corrected value expressed as a concentration).
- (4) Results Units (unit of measurement for each corrected result value).
- (5) Parameter.
- (6) Results Type (e.g., surrogate, TIC, target).
- (7) Sample Analysis Date.

- (8) Sample Analysis Time.
- (9) Sample Preparation Date (extraction).
- (10) Sample Matrix (e.g., surface water, soil, groundwater).
- (11) Reported Detection Limit.
- (12) Sample Purpose (e.g., rinsate, blank, spike, regular).
- (13) Analytical Method Code (EPA Method No.).
- (14) Results Qualifier (EPA flag, e.g., B,J,u).
- (15) Parameter Value Qualifier (e.g., <, =, Y, N, >).
- (16) Laboratory Batch No.
- (17) Parameter Uncertainty (radiation).
- (18) Expected Results (predicted).
- (19) Sample Preparation Code (extraction).
- (20) Basis (i.e., wet/dry of results reported).

e. **WATER LEVEL.**

- (1) Location Code.
- (2) Log Date.
- (3) Log Time.
- (4) Company Code (logging company code).
- (5) Static Water Level (distance from established well measuring point to top of water before purging).
- (6) Production Rate (pump rate).
- (7) Recovery Time.
- (8) Comments.

f. **SAMPLE.**

- (1) Sample Date.
- (2) Sample Time.
- (3) Location Code.
- (4) Start Depth.
- (5) End Depth.
- (6) Matrix (e.g., soil, water, air).
- (7) Sample Method.
- (8) Sample Type (e.g., QC, QA, normal).
- (9) Field Lot No.

g. **PROJECT.**

- (1) Contractor Code.
- (2) Delivery Order.
- (3) Submission Date.
- (4) Installation ID.

h. **BORINGS.**

- (1) Total Depth.
- (2) Completion Date.
- (3) Drilling Company.
- (4) Lithology Code.
- (5) Start Depth.
- (6) End Depth.
- (7) Boring Comments.
- (8) Boring Diameter.
- (9) Drilling Method.

5. The basic functional areas and data requirements for environmental compliance which were identified during the meeting are summarized below:

a. **Facility Type > Facility Location > Site > Site Storage Structure.**

- (1) Building ID.
- (2) Site ID.
- (3) Map ID.
- (4) Location ID.
- (5) Site Storage Structure Type (displayable).

(a) Material Storage Area.

- Building ID.
- Room ID.
- Site ID.
- Map ID.
- Location ID.
- Material Type (chemical data)(link to sample).
- Material Quantity (storage info, reissue).
- Material Info (MSDS) (link to Site Material).
- Material Hazards (link to Site Material).
- Date Material Received.
- Date Material Released (Manifest info).
- Permitting Requirements (link to site).
- Permitting Reporting Requirements (reports)

- (link to site).
- Emergency Preparedness - Response (link to site appurtenances).
- Emergency Preparedness (link to site appurtenances).
  - contingencies
  - equipment

(b) Waste Accumulation Area.

- Building ID.
- Site ID (displayable).
- Map ID.
- Location ID.
- Waste Type (solid, hazardous).
- Waste Quantity (storage info).
- Waste Info
  - Chemical Data (see IRP) (link to sample).
  - Chemical Hazards (link to sample).
  - Date Received.
  - Date Released (manifest info).
- Permit Requirements (link to site).
- Permit Reporting (link to site).
- Treatment.
  - Building ID (link to project).
  - Site ID (link to project).
  - Map Id (link to project).
  - Location ID (link to project).
  - Equipment Data.
  - Pollution Prevention/Reduction.
  - Recycling Info.
- Site Monitoring
- Emergency Preparedness (link to site).
  - Response.
  - Contingencies.
  - Equipment.

(c) Aboveground Storage Tank/Underground Storage Tank.

- Building ID.
- Site ID.
- Map ID.
- Location ID.
- Physical Characteristics.
- Material Type (storage container material, piping).
- Size (capacity, inventory info).
- Chemical Data.
- Monitoring Equipment ID.
- Monitoring Equipment Type (Vadose, etc.).
- Monitoring Dates.
- Monitoring Data Information (analytical).
- Protection
  - Cathodic (dates, material).

- Overfill.
- Structural (maintenance record).
- Berms.
- tightness testing dates.
- tightness testing results.
- Permitting Requirements - Reporting (link to site).
- Emergency Preparedness (link to site appurtenances).
  - Response
  - Contingencies
  - Equipment
- Closure Requirements.

**b. Site > Site Appurtenances.**

- (1) Site ID.
- (2) Equipment ID.
- (3) Map ID.
- (4) Location ID.
- (5) Site Appurtenances Type (displayable).
  - Contamination Reduction Zone (Sensitive Receptors).
  - Decontamination Line.
  - On Site Command Post.
  - Exclusion Zone.
  - Site Info Center.
  - Staging Area.
  - Emergency Equipment.
    - Eyewash.
    - Shower.
    - Spill Response.
    - Washdown.
  - Spill Response Feature.
  - Emergency Preparedness
    - Response (emergency plans, spill response/contingency, reporting info, chemical data).
    - Contingencies.
    - Equipment.

**c. Site > Site Material.**

- (1) Asbestos Containing Material/Lead Based Paint (displayable).
  - Bldg Id.
  - Room ID.
  - Site ID.
  - Map ID.
  - Location ID.
  - Material info (type) (link to material type).
    - Material Hazards (link to material type).
    - Date Tested.

- Date removed/managed.
- Permitting Requirements - Reporting (link to site).

d. **Site > Site Pollutant** (displayable).

- (1) Bldg. ID.
- (2) Site ID.
- (3) Map ID.
- (4) Location ID.
- (5) Pollutant Name.
  - Air Emissions (Bldg ID, Site ID, Map ID, Location ID, Source ID).
    - Chemical Data (link to sample)(sample type, analytical results, etc.).
    - Risk Information (link to emergency preparedness).
    - Monitoring Station/Sampling Point (link to site/area of concern)(Location ID, Site ID, Map ID, Sampling Point ID, Map ID, Facility ID).
    - Operating Information.
    - Permit Requirements (link to site)(HRA, Source Testing, etc.).
    - Permit Reporting (link to site).
    - Emergency Preparedness (link to site appurtenances).
      - Response.
      - Contingencies.
      - Equipment.
  - Chemical Waste, Radioactive Waste, Ordnance, Medical Waste, Chemical Warfare Waste, Biological Warfare Waste, Biological Waste, Solid Waste, Mixed Waste Pollutant, Industrial Waste Water, Stormwater.
    - Bldg. ID.
    - Site ID.
    - Map ID.
    - Location ID.
    - Source ID.
    - Pollutant Name.
      - Chemical Data (link to sample).
      - Risk Information.
      - Emergency Preparedness (link to site appurtenances).
        - Response.
        - Contingencies.
        - Equipment.
    - Monitoring Station (link to site & area of concern).
      - Location ID.
      - Site ID.
      - Map ID.
      - Sampling Point.

- Map ID.
- Facility ID.
- Operating Information.
- Permitting Requirements (link to site).
- Reporting.

**d. Facility Location > Sampling Point > Sampling Type.**

(1) Air (emissions)sample (includes radon, particulate, indoor air pollution), water, soil, sediment, biological, geophysical, material.

- Location ID.
- Site ID.
- Map ID.
- Facility ID.
- Sampling Point.
- Map ID.
- sample data.

**e. Pollutant.**

(1) Noise.

- Location ID.
- Site ID.
- Map ID.
- Facility ID.
- Sampling Point.
- Noise Contour.
- Noise Zone.

(2) Dust (Particulate) (may be under air emissions).

- Location ID.
- Site ID.
- Map ID.
- Facility ID.
- Sampling Point.
- Dust Contour.
- Dust Zone.

**(f) Site > Landfill.**

(1) Landfill.

- Site ID.
- Map ID.
- Facility ID.
- Location ID (Landfill boundary, centroid, label, text).
- Waste Data.
- Permitting.
- Closure.

**(g) Site > Project > Remediation.**

- (1) Site ID.
- (2) Map ID.



- (3) Facility ID.
- (4) Location ID.
  - Site Boundary, Centroid, Label, Text.
- (5) Process Equipment.
- (6) Chemical Information (link to sample).
- (7) Permitting Requirements (link to site).
  - Reporting.
- (8) Waste Treatment.

